

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/JP03/16115

A. CLASSIFICATION OF SUBJECT MATTER  
Int.Cl<sup>7</sup> H04N5/335, H01L27/146

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
Int.Cl<sup>7</sup> H04N5/335, H01L27/146

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004  
Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
JOIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 9-270960 A (Hamamatsu Photonics Kabushiki Kaisha), 14 October, 1997 (14.10.97), Par. Nos. [0035] to [0054]; Figs. 1 to 3 & US 6002435 A	1-3
Y	JP 2000-324397 A (Sony Corp.), 24 November, 2000 (24.11.00), Full text; Figs. 1 to 9 (Family: none)	1-3
Y	JP 9-238286 A (Toshiba Corp.), 09 September, 1997 (09.09.97), Par. Nos. [0013] to [0019]; Figs. 1 to 2 & US 5990948 A & EP 793380 A	1-3

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
23 March, 2004 (23.03.04)

Date of mailing of the international search report  
13 April, 2004 (13.04.04)

Name and mailing address of the ISA/  
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PCT/JP03/16115

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2000-32342 A (Hamamatsu Photonics Kabushiki Kaisha), 28 January, 2000 (28.01.00), Full text; Figs. 1 to 7 & WO 00/02434 A1 & EP 1154483 A & US 2001/8422 A	1-3
A	WO 01/11870 A1 (Hamamatsu Photonics Kabushiki Kaisha), 15 February, 2001 (15.02.01), Full text; Figs. 1 to 14 & EP 1206131 A & US 2002/85104 A	1-3
A	JP 9-51476 A (Hamamatsu Photonics Kabushiki Kaisha), 18 February, 1997 (18.02.97), Full text; Figs. 1 to 6 & US 6201573 A	1-3